



606

TECHNICAL DATA

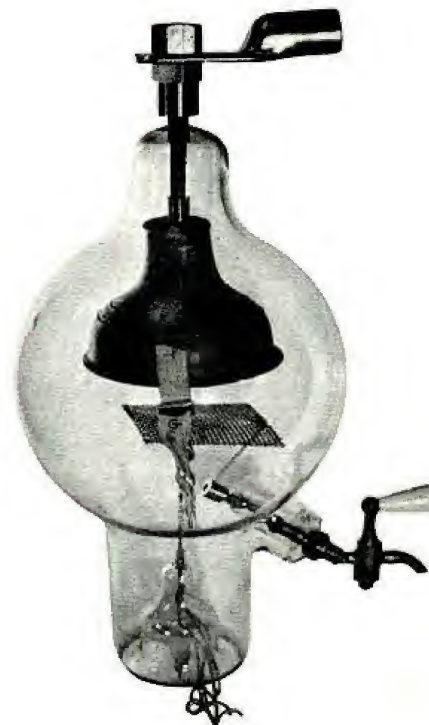
PHANTASATRON

DESCRIPTION

The Umac 606 is an infernal anode, helical beamed phantasatron having a dissipation rating. The unique vacuum in the phantasatron is of the double-pumped type, permitting a clear view of the non-emitting triple-processed plunger-type plate. Because of its unique self-flushing construction, this tube will remain usable throughout its useful life.

The grid is constructed of a rare metal senileium chosen for its total lack of emission.¹ Primary, secondary, and tertiary electrons are fully suppressed by a left-hand inclination toward the ecliptic extending from the nadir to the zenith. This also compensates for aberrations in azimuthal displacements common in tubes of previous design, wherein the focal point was improperly focused due to chromatic sphericalizm.

The urinated tungsten filament is unique. This process is secret.² The uranium used for the urination is of the triple distilled, single isotope variety with all neutrons removed. This material is obtained direct from the AEC-Los Alamos.



GENERAL CHARACTERISTICS

ELECTRICAL

Filament Urinated Tungsten
Voltage } { Adjust until half as
Current } { bright as flashlight
Direct Interelectrode Capacity ... 8.874 gallons

MECHANICAL

Maximum Overall Dimensions
Length 1.076 cubits
Diameter 0.643 cubit
Net Weight 0.069 stone
Shipping Weight Not shippable

APPLICATION NOTES

COOLING -- In operation, the 606 requires a minimum air flow of 5000 cubic feet per second through, around, and above the base. This air flow must be passed through the base in both directions in such a manner that none of the

seals can exceed a temperature of -20° Kelvin. The pressure drop measured at the hole is equal to three fingers of Old Crow. Forced air cooling of the blank is recommended at all frequencies above 60 cycles. Ordinarily a fan

NOTES:

1. Refer to page 42, paragraph 6, "Notes from the I2U Conference" translated from Russian by A. Popoff.

2. See LS/MFT report, "Secret Process -- One Shovel Full to One Shovel Full".

APPLICATION NOTES

with an 8-foot blade 6 inches from the tube will suffice for envelope cooling. At high altitudes, special precautions should be taken in regard to cooling. Any tube failure is probably due to insufficient cooling and is undoubtedly the customer's fault.

OPERATION -- Because of its unique construction, the 606 can serve as an oscillator, modulator, or amplifier. It usually serves as all three simultaneously. No specific operating conditions are available. Ratings will be avail-

able however, as soon as our competitors issue their catalogue. Exhaustive tests in our advertising department have shown that the 606 will give 50 per cent more output than you will obtain. In case of tube failure, our tests show that you have exceeded the safe limit, regardless of output. In such cases, more air is recommended.

BIAS VOLTAGE -- To prevent splattery signals, a large leak is recommended.

OUTLINE DRAWING

